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If you have any questions, please email me at angela@teachingmama.org

For more details on this experiment, visit this website:

<https://teachingmama.org/pot-of-gold-science-experiment>

Pot of Gold

Items Needed:

- Baking Soda
- Vinegar
- Yellow Food Coloring
- Glitter
- Black Bowl or Pot
- Plate or Tray

Set Up Instructions:

- Put your pot in the middle of your plate / tray.
 - Fill your pot halfway with baking soda.
 - Add in yellow food coloring and glitter.
 - Fill the rest of the pot with more baking soda.
 - Add a few more drops of food coloring.
 - Pour vinegar into a cup or bowl for easy pouring.
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- Tell the students that this is a magical pot of gold and only the leprechaun's water (vinegar) can release the magic. Have them create a hypothesis about what the leprechaun's water will do when it is poured in the pot.
 - After students create their hypothesis, have a student pour the leprechaun's water (vinegar) into the center of the pot and watch the magic happen.



Pot of Gold

Hypothesis:

What do you think will happen when we mix baking soda and vinegar? How do you think the addition of food coloring will change the experiment? How do you think adding glitter will affect the final result? Why do you think the mixture might bubble or fizz?

Do you think there will be
an eruption?

- YES
- NO

What color do you think the
eruption will be?

- WHITE
- YELLOW
- GREEN
- ORANGE

Do you think the eruption
will expose glitter?

- YES
- NO

Draw a picture of what you think will happen to the leprechaun's pot of gold.



Pot of Gold

Conclusion:

I learned that the baking soda is a base that reacts with the vinegar that is an acid. The reaction produces carbon dioxide a gas. This gas creates fizzing bubbles and leads to a very bubbly eruption.

Did mixing it create an eruption?

- YES
- NO

What color was the eruption?

- WHITE
- YELLOW
- GREEN
- ORANGE

Did the eruption expose the glitter?

- YES
- NO

Draw a picture of what happen to the leprechaun's pot of gold when you added the vinegar.



Pot of Gold

Hypothesis:

What do you think will happen when we mix baking soda and vinegar? How do you think the addition of food coloring will change the experiment? How do you think adding glitter will affect the final result?

Why do you think the mixture might bubble or fizz?

1. What do you think is going to happen when you add the vinegar?

2. What color do you think the eruption will be, why?

3. Do you think you will be able to find the glitter, why?



Pot of Gold

Conclusion:

I learned that the baking soda is a base that reacts with the vinegar that is an acid. The reaction produces carbon dioxide a gas. This gas creates fizzing bubbles and leads to a very bubbly eruption.

1. What happened when you added the vinegar to the baking soda? Why do you think that happened?

2. What color was the eruption? Was it the color you thought, if not why did you expect it to be a different color?

3. Did you find the glitter? Explain why you were able to.

